

REMARKS

Claims 1-20 are pending. Claims 1-20 have been amended. In addition, the specification has been amended to correct informalities found therein.

In paragraph 2, on page 2 of the Office Action, claims 1-20 were rejected under 35 U.S.C. §112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Specific language in claims 1 and 2 was identified as forming the basis for the rejection.

The claims had been amended responsive to the rejection. It is respectfully requested the rejection be withdrawn.

In paragraph 4, on page 2 of the Office Action, claims 1-20 were rejected under 35 U.S.C. §102(e) as being anticipated by Wakao et al., U.S. Patent No. 6,268,669 (hereinafter Wakao). The rejection is respectfully traversed.

Applicants' invention of claim 1, calls for a motor with a rotation detecting device, comprising a rotary shaft; a casing body with a bottomed cylindrical part for rotatably containing the rotary shaft; and a rotation detecting device which detects rotation of the rotary shaft, wherein the rotation detecting device is supported by a sensor holder, the sensor holder provided with an outer electrical connecting portion and disposed in the casing by insertion into a sensor holder receiving part formed in the casing from an incorporating direction to contact the bottomed cylindrical part for receiving the rotary shaft, and the casing is provided with an electrical connecting opening part from which the outer electric connecting portion of the sensor holder which has been inserted into the sensor holder receiving part is seen, whereby an electrical connection for the sensor holder is made from the electrical connecting opening part. Wakao discloses no such thing.

In Wakao, the sensors are HALLIC sensors for detecting rotational angles. They detect either slits or splines that change magnetic fields. In all cases, as shown in Figures 7

and 11, they are hung suspended from either an extension of the circuit board (Figure 7) to oppose the slits of the torque limiter 80 or from extensions 103, 113 (Figure 11) of the circuit board 40 to oppose slits 101 of case 81 of the torque limiter 80 or splines 111 on the output shaft 11. In neither case can they be said to be disposed in the body by insertion into a holder receiving portion to contact the bottomed cylindrical part as they contact no sides.

Further, in Wakao, the circuit board 40, which corresponds to Applicants' sensor holder, is mounted transverse to the mounting direction of the output (rotary) shaft. As seen in Figure 2, the output shaft 11 is vertical and passes through a hole in the horizontally positioned circuit board 40. This contrasts with Applicants' invention in which the sensor holder is incorporated from an incorporating, or mounting, direction, to the bottomed cylindrical part for the rotary shaft. As Wakao does not literally disclose the claimed invention, it cannot anticipate the invention.

Conventionally, the sensor is normally mounted to the outside of the casing. However, in the claimed invention, the sensor holder can be inserted into the casing due to the unit structure of the sensor. By Applicants' invention, the terminal portion of the sensor holder is disposed in the electrical connecting opening part of the casing so it is very easy to make electrical connections from the outside. In fact, Applicants' invention allows both the terminal portion of the sensors and the electrical connections for the brushes to be easily connected to a wiring system of a vehicle. Therefore, for the reasons discussed, Wakao does not suggest the invention.

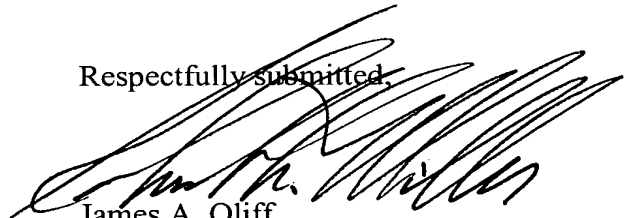
Likewise, Wakao neither anticipates nor suggests the subject matter of the dependent claims for all of the reasons discussed above and for the additional features recited. As examples, claim 3 calls for the electrical connecting opening part enabling seeing a terminal support part and the outer electrical connecting part from outside of the casing. There is no such structure shown in Wakao as Wakao uses a male terminal 124 that extends outside of

the structure (Figure 5). This is shown as a terminal shaft 62 extending outside the device in Figure 2. The claimed feature is also found in claim 11 and constitutes part of the subject matter of claims 14 and 15 as well. Further, Wakao does not disclose an external pull-out terminal unit, which is part of claim 7. The other claims also contain features that are not disclosed or suggested by Wakao.

In view of the foregoing, reconsideration of the Application is requested. It is submitted that the claims as presented herein patentably distinguish over the applied references and fully meet the requirements of 35 U.S.C. §112. Accordingly, allowance of claims 1-20 is respectfully solicited.

Should the Examiner believe anything further is needed to place the Application in condition for allowance, the Examiner is requested to contact the undersigned at the telephone number listed below.

Respectfully submitted,



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